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PATENT &amp; TRADEMARK OFFICE

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE APPLICATION OF

TSUCHIHASHI ET AL.

APPLICATION NO: 10/005,956

FILED: DECEMBER 3, 2001

FOR: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS

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Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT UNDER C.F.R. 1.115

Before beginning substantive examination of this application, please amend this application as follows. A marked-up and clean version of this paragraph as it appears on page 13 have been provided.

In the specification:

The paragraph beginning at line 5 of Page 13 has been amended as follows:

Figures 5A-B show the polynucleotide sequence (SEQ ID NO: 9) and deduced amino acid sequence (SEQ ID NO:10) of the human bradykinin receptor B1 protein variant, BDKRB1-T129C (SNP\_ID: AE103s2) of the present invention.

Respectfully submitted,

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- 5      **Figures 5A-B** show the polynucleotide sequence (SEQ ID NO: 9) and deduced amino acid sequence (SEQ ID NO:10) of the human bradykinin receptor B1 protein variant, BDKRB1-T129C (SNP\_ID: AE103s2) of the present invention. The standard one-letter abbreviation for amino acids is used to illustrate the deduced amino acid sequence. The polynucleotide sequence contains a sequence of 1082 nucleotides (SEQ ID NO:9), encoding a polypeptide of 353 amino acids (SEQ ID NO:10). The predicted ‘T’ to ‘C’ polynucleotide polymorphism is located at nucleic acid 129 of SEQ ID NO:9 and is represented in bold. The polymorphism is a silent mutation and does not change the amino acid sequence of the encoded polypeptide.
- 10
- 15      **Figures 6A-D** show the polynucleotide sequence (SEQ ID NO: 11) and deduced amino acid sequence (SEQ ID NO:12) of the human bradykinin receptor B2 protein, BDKRB2 (Genbank Accession No: NP\_000614.1). The standard one-letter abbreviation for amino acids is used to illustrate the deduced amino acid sequence. The polynucleotide sequence contains a sequence of 3733 nucleotides (SEQ ID NO:11), encoding a polypeptide of 391 amino acids (SEQ ID NO:12).
- 20
- 25      **Figures 7A-B** show the polynucleotide sequence (SEQ ID NO: 13) and deduced amino acid sequence (SEQ ID NO:14) of the human tachykinin receptor 1 protein, TACR1 (Genbank Accession No: NP\_001049.1). The standard one-letter abbreviation for amino acids is used to illustrate the deduced amino acid sequence. The polynucleotide sequence contains a sequence of 1766 nucleotides (SEQ ID NO:13), encoding a polypeptide of 407 amino acids (SEQ ID NO:14).
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- 35      **Figures 8A-B** show the polynucleotide sequence (SEQ ID NO: 15) and deduced amino acid sequence (SEQ ID NO:16) of the human tachykinin receptor 1 protein variant, TACR1-A543G (SNP\_ID: AE106s1) of the present invention. The standard one-letter abbreviation for amino acids is used to illustrate the deduced amino acid sequence. The polynucleotide sequence contains a sequence of 1766 nucleotides (SEQ ID NO:15), encoding a polypeptide of 407 amino acids (SEQ ID NO:16). The predicted ‘A’ to ‘G’ polynucleotide polymorphism is located at nucleic acid 543 of

**Figures 5A-B** show the polynucleotide sequence (SEQ ID NO: 9) and deduced amino acid sequence (SEQ ID NO:10) of the human bradykinin receptor B1 protein variant, BDKRB1-T129C (SNP\_ID: AE103s2) of the present invention. The standard one-letter abbreviation for amino acids is used to illustrate the deduced amino acid sequence. The polynucleotide sequence contains a sequence of 1082 nucleotides (SEQ ID NO:9), encoding a polypeptide of 353 amino acids (SEQ ID NO:10). The predicted ‘T’ to ‘C’ polynucleotide polymorphism is located at nucleic acid 129 of SEQ ID NO:9 and is represented in bold. The polymorphism is a silent mutation and does not change the amino acid sequence of the encoded polypeptide.

**Figures 5A-[D] B** show the polynucleotide sequence (SEQ ID NO: 9) and deduced amino acid sequence (SEQ ID NO:10) of the human bradykinin receptor B1 protein variant, BDKRB1-T129C (SNP\_ID: AE103s2) of the present invention. The standard one-letter abbreviation for amino acids is used to illustrate the deduced amino acid sequence. The polynucleotide sequence contains a sequence of 1082 nucleotides (SEQ ID NO:9), encoding a polypeptide of 353 amino acids (SEQ ID NO:10). The predicted ‘T’ to ‘C’ polynucleotide polymorphism is located at nucleic acid 129 of SEQ ID NO:9 and is represented in bold. The polymorphism is a silent mutation and does not change the amino acid sequence of the encoded polypeptide.